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NOTICE OF ALLOWANCE AND FEE(S) DUE

2624

7590

11/03/2010

VOLPE AND KOENIG, P.C. UNITED PLAZA 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103

EXAMINER				
HAN, QI				
ART UNIT	PAPER NUMBER			
2626				

DATE MAILED: 11/03/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802.835	03/18/2004	Xavier Fourquin	IPG-PT107	4262

TITLE OF INVENTION: AUDIO DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence including below or directed off tions.	ng the Patent, advance onerwise in Block 1, by (rders and notification of a specifying a new corre	maintenance fees w spondence address;	ill be i and/or	mailed to the current of (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
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PHILADELPHI	A, PA 19103						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/802,835	03/18/2004	•	Xavier Fourquin			IPG-PT107	4262
TITLE OF INVENTION	: AUDIO DEVICE						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/03/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
HAN	1, OI	<u>1</u> 2626	704-201000	J			
1. Change of corresponde	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p	patent front page, lis	st		
CFR 1.363).	andence address (or Cha	nge of Correspondence	(1) the names of up to or agents OR, alternati	3 registered paten	t attorn	eys 1	
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PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer 2 re			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	pe)			
PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the p T a substitute for filing an	atent. If an assign	ee is id	entified below, the do	cument has been filed for
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Please check the appropr	iate assignee category or	categories (will not be pi	rinted on the patent):	Individual 🖵 Co	orporati	on or other private grou	ip entity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	ase first reapply ar	ıy prev	iously paid issue fee s	hown above)
Issue Fee	Jo small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
	# of Copies		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	osit Account Numbe	er	(enclose an	extra copy of this form).
5. Change in Entity Star a. Applicant claim	t us (from status indicate s SMALL ENTITY stati	*	☐ b. Applicant is no lon	ger claiming SMAI	L ENT	TITY status. See 37 CF	R 1.27(g)(2).
••	d Publication Fee (if rea	uired) will not be accepte	d from anyone other than	-			
interest as shown by the f	records of the Office Sta	ues ratent and trademark	Conice.				
Authorized Signature				Date			
Typed or printed name				-			
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10/802,835	03/18/2004	Xavier Fourquin	IPG-PT107	4262
3624 75	590 11/03/2010		EXAM	INER
VOLPE AND KOENIG, P.C.			HAN	I, QI
UNITED PLAZA			ART UNIT	PAPER NUMBER
30 SOUTH 17TH STREET PHILADELPHIA, PA 19103		2626 DATE MAILED: 11/03/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 742 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 742 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/802,835	FOURQUIN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	QI HAN	2626			
	QITAN	2020			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate coming IGHTS. This application is	in this application. If not included munication will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>amendment filed on 0</u>	<u>09/01/2010</u> .				
2. X The allowed claim(s) is/are <u>1,2,4-13 and 15-23</u> .					
 3. ☐ Acknowledgment is made of a claim for foreign priority unanal All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received. e been received in Applica	tion No			
Copies of the certified copies of the priority do	cuments have been receiv	red in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.				
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached			
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)	5 □ Notice of	Informal Datant Application			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application Summary (PTO-413),			
,	Paper No	o./Mail Date			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner	's Amendment/Comment			
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allowance					
	9. 🔲 Other	<u>_</u>			
/ QI HAN/					
Primary Examiner, Art Unit 2626					

DETAILED ACTION

Response to Amendment

1. This communication is responsive to the applicant's amendment dated 09/01/2010. The applicant(s) amended claims 1-2, 4-7, 11, 13, 15-18, cancelled claims 3 and 14, and added new claims 22-23 (see the amendment: pages 2-8).

The examiner withdrew the previous claim rejection under 35 USC 103, because the applicant amended all independent claims and provided corresponding argument(s), which overcame the prior art rejection and brought considerable reason for allowance (see below).

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with the applicant's representative, Joseph Gushue (59,819), on 10/29/2010. The Examiner's Amendment is as following:

In the **claims** (refer to the latest amendment filed on 09/01/2010):

Regarding **claim 2**, replace "wherein the mixer comprises a digital signal processor" with --wherein a digital signal processor comprises the mixer--.

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Art Unit: 2626

Regarding **claim 13**, replace "wherein the mixer comprises a digital signal processor" with --wherein a digital signal processor comprises the mixer--.

----End of Examiner's Amendment----

Allowable Subject Matter

4. Claims 1-2, 4-13, 15-23 are allowed.

The examiner's statement for allowance is based on the same reason(s) as the applicant's arguments filed on 09/01/2010 (see Remarks: page 10, paragraph 2 to page 11, paragraph 1), which are persuasive and provided considerable reason for allowance. By a further search and reconsideration, it is noted that even though the prior art of record, PAWATE et al. (US 5,641,927) and BOSS et al. (US 5,915,237), provided numerous related teachings and techniques, the combined features as claimed/argued, particularly including the limitation of "a mixer configured to replace the at least one speech signal fundamental frequency of the digital speech signal with the note fundamental frequency for each of the plurality of notes of the musical score to produce a combined digital signal", are not anticipated by, nor made obvious over the prior art of the record.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2626

Conclusion

6. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

Mail Stop ____ Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

or faxed to: 571-273-8300, (for formal communications intended for entry) **Or:** 571-273-8300, (for informal or draft communications, and please label "PROPOSED" or "DRAFT")

If no Mail Stop is indicated below, the line beginning Mail Stop should be omitted from the address.

Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, etc.) as follows:

U.S. Patent and Trademark Office Customer Window, Mail Stop _____ Randolph Building Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to QI HAN whose telephone number is (571)272-7604. The examiner can normally be reached on M-TH:9:00-19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Wozniak can be reached on (571)-272-7632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QH/qh October 29, 2010 /Qi Han/ Primary Examiner, Art Unit 2626